The Case of the Missing Playbook

Grade 5 math · Multiplication, Skip counting, Word problems, Bar models, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

Right before the big game, the master playbook went missing from the locker room bench. A trail of chalk marks and lost gear leads across the field, but only a keen detective can solve the clues and unmask the sneaky player behind the heist.

1. Solve each math problem. The answer is a number, and the letter beside it is what that number stands for.
2. In the clue boxes, write that letter in every box showing the same number, then read the secret clue.
3. Use each clue to cross suspects off the list. The one suspect left at the end is the culprit!

My answer: the Playbook Thief is _____

Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

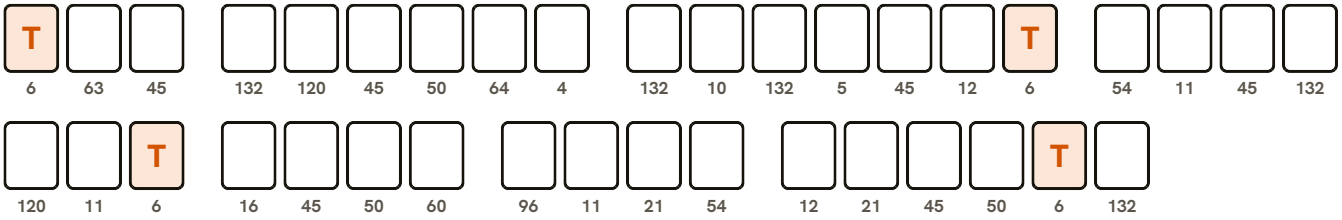
NAME	FAVORITE PLAY	LUCKY GEAR	STANCE	HELMET STRIPE	DISTRACTION
Richard Dent	Hail Mary Pass	Padded Armband	Right Handed Tap	Navy Blue Stripe	Loud Whistle Blowing
Cole Kmet	Pick Six Interception	Gold Cleats	Left Handed Tap	Bright Orange Stripe	Slippery Turf Cleat
Walter Payton	Jet Sweep	Grip Gloves	Right Handed Tap	Bright Orange Stripe	Flying Mascot Shirt
Charles Tillman	Jet Sweep	Gold Cleats	Right Handed Tap	Bright Orange Stripe	Flying Mascot Shirt
Kyler Gordon	Hail Mary Pass	Orange Visor	Left Handed Tap	Solid White Stripe	Slippery Turf Cleat
Olin Kreutz	Hail Mary Pass	Custom Headband	Right Handed Tap	Navy Blue Stripe	Flying Mascot Shirt
Jaquan Brisker	Hail Mary Pass	Padded Armband	Right Handed Tap	Navy Blue Stripe	Flying Mascot Shirt
Brian Urlacher	QB Sneak	Padded Armband	Right Handed Tap	Navy Blue Stripe	Flying Mascot Shirt
Mike Singletary	Pick Six Interception	Gold Cleats	Left Handed Tap	Navy Blue Stripe	Flying Mascot Shirt
Caleb Williams	Flea Flicker	Orange Visor	Right Handed Tap	Solid White Stripe	Flying Mascot Shirt
TJ Edwards	Flea Flicker	Orange Visor	Left Handed Tap	Navy Blue Stripe	Flying Mascot Shirt
Matt Forte	QB Sneak	Padded Armband	Right Handed Tap	Bright Orange Stripe	Flying Mascot Shirt
Rome Odunze	QB Sneak	Padded Armband	Left Handed Tap	Navy Blue Stripe	Slippery Turf Cleat
Devin Hester	Hail Mary Pass	Gold Cleats	Right Handed Tap	Solid White Stripe	Loud Whistle Blowing
Montez Sweat	Hail Mary Pass	Orange Visor	Right Handed Tap	Navy Blue Stripe	Flying Mascot Shirt
Jaylon Johnson	Pick Six Interception	Padded Armband	Right Handed Tap	Solid White Stripe	Slippery Turf Cleat
DJ Moore	Pick Six Interception	Grip Gloves	Right Handed Tap	Navy Blue Stripe	Slippery Turf Cleat
Tremaine Edmunds	Flea Flicker	Gold Cleats	Left Handed Tap	Navy Blue Stripe	Slippery Turf Cleat
Jim McMahon	Pick Six Interception	Gold Cleats	Right Handed Tap	Navy Blue Stripe	Flying Mascot Shirt
Sid Luckman	Jet Sweep	Padded Armband	Left Handed Tap	Navy Blue Stripe	Flying Mascot Shirt
Lance Briggs	Jet Sweep	Gold Cleats	Left Handed Tap	Navy Blue Stripe	Flying Mascot Shirt

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CLUE 1 Multiplication facts (1-12)

Coach counted equal rows of practice cones across the field to decode the initial clue.

Solve each problem, then write its letter in every clue box that shows the same number.



3 × 2 = ☐ → T

9 × 5 = ☐ → E

4 × 1 = ☐ → Y

7 × 3 = ☐ → L

6 × 10 = ☐ → R

4 × 3 = ☐ → C

7 × 9 = ☐ → H

5 × 10 = ☐ → A

1 × 5 = ☐ → P

8 × 8 = ☐ → K

12 × 8 = ☐ → G

10 × 12 = ☐ → N

12 × 11 = ☐ → S

9 × 6 = ☐ → D

10 × 1 = ☐ → U

4 × 4 = ☐ → W

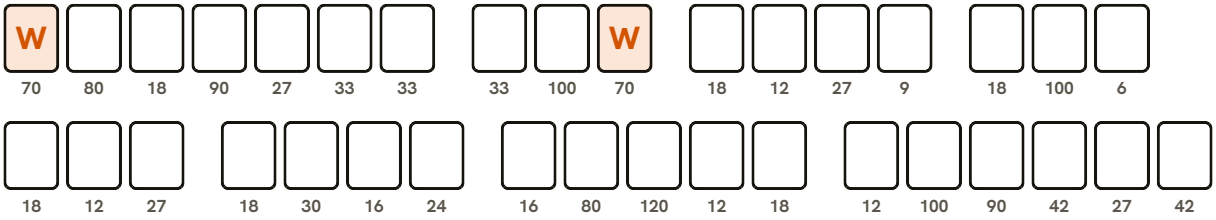
11 × 1 = ☐ → O

Scratch space:

CLUE 2 Skip counting

> The mascot hopped down the yard lines while skip counting to unlock another detail.

Solve each problem, then write its letter in every clue box that shows the same number.



Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, ___, 80, 90 ☐ → **W**

Skip-count by 10s. Fill the blank: 10, 20, ___, 40, 50 ☐ → **U**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 ☐ → **S**

Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 ☐ → **P**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, ___, 130, 140 ☐ → **G**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, ___, 100, 110 ☐ → **N**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 ☐ → **D**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 ☐ → **E**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 ☐ → **I**

Skip-count by 3s. Fill the blank: 3, 6, 9, ___, 15, 18 ☐ → **H**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 ☐ → **A**

Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 ☐ → **M**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, ___, 27, 30 ☐ → **F**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, ___, 21, 24 ☐ → **T**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 ☐ → **R**

Scratch space:

CLUE 3 Word problems

> The manager grouped the practice gear to solve a word puzzle left on the bench.

Solve each problem, then write its letter in the boxes to fill in the missing word.

Someone scared the villain off with

F							A	S	C	O	T	S	H		R	T
40	91	68	115	37	105	77								115		

.

Equipment Manager lined up 8 rows of 5 practice jerseys. How many practice jerseys in all?

Answer: ☐ → **F**

Equipment Manager lined up 11 rows of 7 practice jerseys. How many practice jerseys in all?

Answer: ☐ → **M**

Equipment Manager found 66 clipboards yesterday and 2 more today. How many clipboards in all?

Answer: ☐ → **Y**

Equipment Manager found 72 water bottles yesterday and 19 more today. How many water bottles in all?

Answer: ☐ → **L**

Equipment Manager found 3 practice jerseys yesterday and 34 more today. How many practice jerseys in all?

Answer: ☐ → **N**

There were 142 helmets. 27 were used up. How many helmets are left?

Answer: ☐ → **I**

Equipment Manager found 85 helmets yesterday and 20 more today. How many helmets in all?

Answer: ☐ → **G**

Scratch space:

CLUE 4 Bar model word problems

Analyzing the bar models on the tactical whiteboard exposed an important evidence gap.

Draw a bar model to solve each word problem, then write its letter in the boxes to fill in the missing word.

A strand of

N							E	S	T	R	I	P	E
99	31	96	122	49	143	79							

hair turned up at the scene.

The red team has 105 practice jerseys and the blue team has 6 practice jerseys. How many more practice jerseys does the red team have?

draw a bar model

Answer: ☐ → N

Equipment Manager has 93 helmets, packed 3 to a bag. How many bags can be filled?

draw a bar model

Answer: ☐ → A

There were 166 footballs in all. 23 footballs were used. How many footballs are left?

draw a bar model

Answer: ☐ → L

Equipment Manager has 192 clipboards, packed 2 to a bag. How many bags can be filled?

draw a bar model

Answer: ☐ → V

Equipment Manager has 237 footballs, packed 3 to a bag. How many bags can be filled?

draw a bar model

Answer: ☐ → U

Equipment Manager has 147 footballs, packed 3 to a bag. How many bags can be filled?

draw a bar model

Answer: ☐ → B

Equipment Manager used 1/2 of the clipboards on the first day. The other 61 clipboards were used the next day. How many clipboards were there in all?

draw a bar model

Answer: ☐ → Y

CLUE 5 Division facts (1-12) - the last clue

> Dividing the remaining water bottles equally among the players unraveled the final secret.

First solve each problem. Then find each answer in the numbered list below and cross that sentence out. One sentence will be left - that is exactly what the villain did!

Step 1 - solve these:

4 ÷ 1 = ☐	9 ÷ 3 = ☐	70 ÷ 10 = ☐	12 ÷ 2 = ☐	2 ÷ 2 = ☐
55 ÷ 5 = ☐	60 ÷ 12 = ☐	22 ÷ 11 = ☐	56 ÷ 7 = ☐	90 ÷ 10 = ☐
24 ÷ 2 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain executed a hail mary pass, then laced up gold cleats.
2. The villain called a sneaky flea flicker, then strapped a padded armband.
3. The villain executed a hail mary pass, then strapped a padded armband.
4. The villain executed a hail mary pass, then fixed a custom headband.
5. The villain ran a quick qb sneak, then tightened grip gloves.
6. The villain ran a quick qb sneak, then fixed a custom headband.
7. The villain executed a hail mary pass, then adjusted an orange visor.
8. The villain grabbed a pick six interception, then adjusted an orange visor.
9. The villain grabbed a pick six interception, then laced up gold cleats.
10. The villain ran a quick qb sneak, then strapped a padded armband.
11. The villain called a sneaky flea flicker, then laced up gold cleats.
12. The villain grabbed a pick six interception, then tightened grip gloves.

TEACHER / PARENT

Answer Key

The Case of the Missing Playbook

Culprit: Brian Urlacher

QB Sneak · Padded Armband · Right Handed Tap · Navy Blue Stripe · Flying Mascot Shirt

Trail: Start 21 → Clue 1 14 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SNEAKY SUSPECT DOES NOT WEAR GOLD CLEATS"

3 × 2 = 6 (T) · 9 × 5 = 45 (E) · 4 × 1 = 4 (Y) · 7 × 3 = 21 (L) · 6 × 10 = 60 (R) · 4 × 3 = 12 (C) · 7 × 9 = 63 (H) · 5 × 10 = 50 (A) · 1 × 5 = 5 (P) · 8 × 8 = 64 (K) · 12 × 8 = 96 (G) · 10 × 12 = 120 (N) · 12 × 11 = 132 (S) · 9 × 6 = 54 (D) · 10 × 1 = 10 (U) · 4 × 4 = 16 (W) · 11 × 1 = 11 (O)

Clue 2 (Skip counting): "WITNESS SAW THEM TAP THE TURF RIGHT HANDED"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, ___, 80, 90 = 70 (W) · Skip-count by 10s. Fill the blank: 10, 20, ___, 40, 50 = 30 (U) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 = 33 (S) · Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 = 6 (P) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, ___, 130, 140 = 120 (G) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, ___, 100, 110 = 90 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 = 42 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 = 27 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 = 80 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, ___, 15, 18 = 12 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 = 100 (A) · Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 = 9 (M) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, ___, 27, 30 = 24 (F) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, ___, 21, 24 = 18 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 = 16 (R)

Clue 3 (Word problems): "FLYING MASCOT SHIRT"

Equipment Manager lined up 8 rows of 5 practice jerseys. How many practice jerseys in all? = 40 (F) · Equipment Manager lined up 11 rows of 7 practice jerseys. How many practice jerseys in all? = 77 (M) · Equipment Manager found 66 clipboards yesterday and 2 more today. How many clipboards in all? = 68 (Y) · Equipment Manager found 72 water bottles yesterday and 19 more today. How many water bottles in all? = 91 (L) · Equipment Manager found 3 practice jerseys yesterday and 34 more today. How many practice jerseys in all? = 37 (N) · There were 142 helmets. 27 were used up. How many helmets are left? = 115 (I) · Equipment Manager found 85 helmets yesterday and 20 more today. How many helmets in all? = 105 (G)

Clue 4 (Bar model word problems): "NAVY BLUE STRIPE"

The red team has 105 practice jerseys and the blue team has 6 practice jerseys. How many more practice jerseys does the red team have? = 99 (N) · Equipment Manager has 93 helmets, packed 3 to a bag. How many bags can be filled? = 31 (A) · There were 166 footballs in all. 23 footballs were used. How many footballs are left? = 143 (L) · Equipment Manager has 192 clipboards, packed 2 to a bag. How many bags can be filled? = 96 (V) · Equipment Manager has 237 footballs, packed 3 to a bag. How many bags can be filled? = 79 (U) · Equipment Manager has 147 footballs, packed 3 to a bag. How many bags can be filled? = 49 (B) · Equipment Manager used 1/2 of the clipboards on the first day. The other 61 clipboards were used the next day. How many clipboards were there in all? = 122 (Y)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Brian Urlacher

4 ÷ 1 = 4 · 9 ÷ 3 = 3 · 70 ÷ 10 = 7 · 12 ÷ 2 = 6 · 2 ÷ 2 = 1 · 55 ÷ 5 = 11 · 60 ÷ 12 = 5 · 22 ÷ 11 = 2 · 56 ÷ 7 = 8 · 90 ÷ 10 = 9 · 24 ÷ 2 = 12